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AirMagnet 802.11 a/b/g/n Wireless PC Card (C1060) Technical Specifications

Datasheet
AirMagnet, Inc.
April 2008

Technical Specifications

Main Chipset	➤ Atheros® AR5416, AR5133					
Frequency range	➤ USA: 2.400 ~ 2.483GHz, 5.15 ~ 5.35GHz, 5.725 ~ 5.825GHz ➤ Europe: 2.400 ~ 2.483GHz, 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz					
Modulation technique	➤ 802.11n a/b/g DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16-QAM, 64-QAM) DSSS (Direct Sequence Spread Spectrum) with DBPSK (Differential Binary Phase Shift Keying 1Mbps), DQPSK (Differential Quaternary Phase Shift Keying 2Mbps), and CCK (Complementary Code Keying 5.5&11Mbps), and OFDM (Orthogonal Frequency Division Multiplexing with BPSK for 6,9Mbps, QPSK for 12,18Mbps, 16QAM for 24,36Mbps, 64QAM for 48,54Mbps)					
Host interface	➤ Cardbus form factor with 32-bit interface					
Channels support	➤ 802.11n b/g US/Canada: 11 (1 ~ 11) Major European country: 13 (1 ~ 13) France: 4 (10 ~ 13) ➤ 802.11n a 1). US/Canada: 12 non-overlapping channels (36,40,44,48,52,56,60,64; 149,153,157,161) 2). Europe: 19 non-overlapping channel (36,40,44,48,52,56,60,64; 100,104,108,112,116,120,124,128,132,136,140)					
Operation voltage	➤ 3.3V +/- 5%					
Power consumption @25° C & Win2K environment		802.11a Avg/Max (mA)	802.11b Avg/Max	802.11g Avg/Max	802.11n(2.4GHz) Avg/Max (mA)	802.11n(5GHz) Avg/Max (mA)
	➤ Continue Tx	615/716	614/720	547/639	584/685	632/732
	➤ FTP Tx	384/600	487/640	351/480	486/669	572/698
	➤ FTP Rx	433/524	379/611	386/499	406/653	474/676
	➤ Standby mode	437/502	393/485	391/468	383/456	393/490
	➤ Power saving	38/487	41/447	42/454	42/417	101/426
	***The maximum current consumption would be impacted by radiation environment and the driver mechanism.					
Output power	➤ 802.11a	Test Frequencies	6-24_Target	36_Target	48_Target	54_Target
		4920	15	15	15	15
		5170	15	15	15	15
		5230	15	15	15	15
		5260	14	14	14	14
		5320	14	14	14	14
		5500	17	16	16	15
		5600	17	16	16	15
		5700	17	16	16	15
		5825	17	16	16	15
	➤ 802.11b	Test Frequencies	1/2_Target	5.5_Target	11_Target	

	2412	16	16	16					
	2472	16	16	16					
	2484	16	16	16					
	➤ 802.11g								
	Test Frequencies	6-24_Target	36_Target	48_Target	54_Target				
	2412	17	17	17	16				
	2437	17	17	17	16				
	2472	17	17	17	16				
	➤ 802.11n								
	Freq. Range: 5GHz/HT20: @800GI(400GI)								
	Test Freq	MCS 0/8	MCS 1/9	MCS 2/10	MCS 3/11	MCS 4/12	MCS 5/13	MCS 6/14	MCS 7/15
	4920	15	15	15	15	15	15	12	12
	5170	15	15	15	15	15	15	12	12
	5230	15	15	15	15	15	15	12	12
	5260	14	14	14	14	14	14	12	12
	5320	14	14	14	14	14	14	12	12
	5500	18	18	18	16	15	15	12	12
	5600	18	18	18	16	15	15	12	12
	5700	18	18	18	16	15	15	12	12
	5825	18	18	18	16	15	15	12	12
	Freq. Range: 5GHz/HT40: @800GI(400GI)								
	Test Freq	MCS 0/8	MCS 1/9	MCS 2/10	MCS 3/11	MCS 4/12	MCS 5/13	MCS 6/14	MCS 7/15
	4920	15.5	15.5	15.5	15	15	15	12	11
	5190	15.5	15.5	15.5	15	15	15	12	11
	5230	15.5	15.5	15.5	15	15	15	12	11
	5260	15.5	15.5	15.5	15	15	15	12	11
	5320	15.5	15.5	15.5	15	15	15	12	11
	5500	17	17	17	15	15	15	12	11
	5600	17	17	17	15	15	15	12	11
	5700	17	17	17	15	15	15	12	11
	5825	17	17	17	15	15	15	12	11
	Freq. Range: 2.4GHz/HT20: @800GI(400GI)								
	Test Freq	MCS 0/8	MCS 1/9	MCS 2/10	MCS 3/11	MCS 4/12	MCS 5/13	MCS 6/14	MCS 7/15
	2412	18	18	18	17	16	15	14	13
	2437	18	18	18	17	16	15	14	13
	2472	18	18	18	17	16	15	14	13
	Freq. Range: 2.4GHz/HT40: @800GI(400GI)								
	Test Freq	MCS 0/8	MCS 1/9	MCS 2/10	MCS 3/11	MCS 4/12	MCS 5/13	MCS 6/14	MCS 7/15
	2412	18	18	18	16	16	15	13	12
	2437	18	18	18	16	16	15	13	12
	2472	18	18	18	16	16	15	13	12
EVM	➤ 802.11a								
	Modulation	Code Rate	Relative constellation error (dB)		Relative constellation error (dB)				
			IEEE Spec (1Tx dB)		Typical/Maximum (2Tx dB)				
	BPSK	1/2	-5		-20/-15				
	BPSK	3/4	-8		-20/-15				
	QPSK	1/2	-10		-20/-15				
	QPSK	3/4	-13		-21/-17				
	16-QAM	1/2	-16		-21/-17				
	16-QAM	3/4	-19		-25/-21				
	64-QAM	2/3	-22		-26/-23				

	64-QAM	3/4	-25	-28/-25
➤	802.11b			
	Modulation	Code Rate	Relative constellation error (dB)	Relative constellation error (dB)
			IEEE Spec (1Tx dB)	Typical/Maximum (2Tx dB)
	DBPSK		-10	-18/-15
	DQPSK		-10	-18/-15
	CCK		-10	-18/-15
➤	802.11g			
	Modulation	Code Rate	Relative constellation error (dB)	Relative constellation error (dB)
			IEEE Spec (1Tx dB)	Typical/Maximum (2Tx dB)
	BPSK	1/2	-5	-21/-15
	BPSK	3/4	-8	-21/-15
	QPSK	1/2	-10	-21/-15
	QPSK	3/4	-13	-23/-20
	16-QAM	1/2	-16	-25/-20
	16-QAM	3/4	-19	-27/-22
	64-QAM	2/3	-22	-28/-25
	64-QAM	3/4	-25	-30/-27
➤	802.11ng			
	Modulation	Code Rate	Relative constellation error (dB)	Relative constellation error (dB)
			IEEE Spec (1Tx dB)	Typical/Maximum (2Tx dB)
✧	HT20			
	BPSK	1/2	-5	-20/-15
	QPSK	1/2	-10	-20/-16
	QPSK	3/4	-13	-20/-16
	16-QAM	1/2	-16	-25/-20
	16-QAM	3/4	-19	-29/-22
	64-QAM	2/3	-22	-29/-24
	64-QAM	3/4	-25	-30/-26
	64-QAM	5/6	-28	-31/-28
✧	HT40			
	BPSK	1/2	-5	-21/-15
	QPSK	1/2	-10	-21/-15
	QPSK	3/4	-13	-21/-15
	16-QAM	1/2	-16	-25/-20
	16-QAM	3/4	-19	-28/-22
	64-QAM	2/3	-22	-30/-24
	64-QAM	3/4	-25	-31/-26
	64-QAM	5/6	-28	-32/-28
➤	802.11na			
	Modulation	Code Rate	Relative constellation error (dB)	Relative constellation error (dB)
			IEEE Spec (1Tx dB)	Typical/Maximum (2Tx dB)
✧	HT20			
	BPSK	1/2	-5	-26/-15
	QPSK	1/2	-10	-26/-16
	QPSK	3/4	-13	-26/-16
	16-QAM	1/2	-16	-28/-20
	16-QAM	3/4	-19	-29/-22
	64-QAM	2/3	-22	-30/-24
	64-QAM	3/4	-25	-30/-26
	64-QAM	5/6	-28	-30/-28

	<ul style="list-style-type: none"> ❖ HT40 <ul style="list-style-type: none"> BPSK 1/2 -5 -20/-15 QPSK 1/2 -10 -20/-15 QPSK 3/4 -13 -20/-15 16-QAM 1/2 -16 -25/-20 16-QAM 3/4 -19 -26/-22 64-QAM 2/3 -22 -28/-24 64-QAM 3/4 -25 -31/-26 64-QAM 5/6 -28 -32/-28 																																																																																																
Sensitivity	<ul style="list-style-type: none"> ➤ 802.11a <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Modulation</th> <th style="text-align: left;">Code Rate</th> <th style="text-align: left;">IEEE Spec (1Rx dBm)</th> <th style="text-align: left;">Typical/Maximum (3Rx dBm)</th> </tr> </thead> <tbody> <tr><td>BPSK</td><td>1/2</td><td>-82</td><td>-94/-90</td></tr> <tr><td>BPSK</td><td>3/4</td><td>-81</td><td>-94/-90</td></tr> <tr><td>QPSK</td><td>1/2</td><td>-79</td><td>-94/-89</td></tr> <tr><td>QPSK</td><td>3/4</td><td>-77</td><td>-93/-88</td></tr> <tr><td>16-QAM</td><td>1/2</td><td>-74</td><td>-90/-86</td></tr> <tr><td>16-QAM</td><td>3/4</td><td>-70</td><td>-87/-82</td></tr> <tr><td>64-QAM</td><td>2/3</td><td>-66</td><td>-83/-79</td></tr> <tr><td>64-QAM</td><td>3/4</td><td>-65</td><td>-81/-77</td></tr> </tbody> </table> ➤ 802.11b <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Modulation</th> <th style="text-align: left;">IEEE Spec (1Rx dBm)</th> <th style="text-align: left;">Typical/Maximum (3Rx dBm)</th> </tr> </thead> <tbody> <tr><td>DBPSK</td><td>-82</td><td>-99/-95</td></tr> <tr><td>DQPSK</td><td>-80</td><td>-93/-89</td></tr> <tr><td>CCK</td><td>-76</td><td>-90/-86</td></tr> </tbody> </table> ➤ 802.11g <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Modulation</th> <th style="text-align: left;">Code Rate</th> <th style="text-align: left;">IEEE Spec (1Rx dBm)</th> <th style="text-align: left;">Typical/Maximum (3Rx dBm)</th> </tr> </thead> <tbody> <tr><td>BPSK</td><td>1/2</td><td>-82</td><td>-95/-91</td></tr> <tr><td>BPSK</td><td>3/4</td><td>-81</td><td>-95/-91</td></tr> <tr><td>QPSK</td><td>1/2</td><td>-79</td><td>-95/-91</td></tr> <tr><td>QPSK</td><td>3/4</td><td>-77</td><td>-94/-90</td></tr> <tr><td>16-QAM</td><td>1/2</td><td>-74</td><td>-91/-87</td></tr> <tr><td>16-QAM</td><td>3/4</td><td>-70</td><td>-88/-84</td></tr> <tr><td>64-QAM</td><td>2/3</td><td>-66</td><td>-84/-80</td></tr> <tr><td>64-QAM</td><td>3/4</td><td>-65</td><td>-82/-77</td></tr> </tbody> </table> ➤ 802.11ng <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Modulation</th> <th style="text-align: left;">Code Rate</th> <th style="text-align: left;">IEEE Spec (1Rx dBm)</th> <th style="text-align: left;">Typical/Maximum (3Rx dBm)</th> </tr> </thead> <tbody> <tr> <td>❖ HT20 <ul style="list-style-type: none"> BPSK 1/2 -80 -95/-91 QPSK 1/2 -77 -94/-90 QPSK 3/4 -75 -91/-87 16-QAM 1/2 -72 -88/-84 16-QAM 3/4 -68 -85/-81 64-QAM 2/3 -64 -81/-77 64-QAM 3/4 -63 -80/-76 64-QAM 5/6 -62 -77/-72 </td> <td></td> <td></td> <td></td> </tr> <tr> <td>❖ HT40 <ul style="list-style-type: none"> BPSK 1/2 -77 -91/-86 QPSK 1/2 -74 -90/-86 QPSK 3/4 -72 -88/-83 16-QAM 1/2 -69 -85/-81 16-QAM 3/4 -65 -82/-78 </td> <td></td> <td></td> <td></td> </tr> </tbody> </table> 	Modulation	Code Rate	IEEE Spec (1Rx dBm)	Typical/Maximum (3Rx dBm)	BPSK	1/2	-82	-94/-90	BPSK	3/4	-81	-94/-90	QPSK	1/2	-79	-94/-89	QPSK	3/4	-77	-93/-88	16-QAM	1/2	-74	-90/-86	16-QAM	3/4	-70	-87/-82	64-QAM	2/3	-66	-83/-79	64-QAM	3/4	-65	-81/-77	Modulation	IEEE Spec (1Rx dBm)	Typical/Maximum (3Rx dBm)	DBPSK	-82	-99/-95	DQPSK	-80	-93/-89	CCK	-76	-90/-86	Modulation	Code Rate	IEEE Spec (1Rx dBm)	Typical/Maximum (3Rx dBm)	BPSK	1/2	-82	-95/-91	BPSK	3/4	-81	-95/-91	QPSK	1/2	-79	-95/-91	QPSK	3/4	-77	-94/-90	16-QAM	1/2	-74	-91/-87	16-QAM	3/4	-70	-88/-84	64-QAM	2/3	-66	-84/-80	64-QAM	3/4	-65	-82/-77	Modulation	Code Rate	IEEE Spec (1Rx dBm)	Typical/Maximum (3Rx dBm)	❖ HT20 <ul style="list-style-type: none"> BPSK 1/2 -80 -95/-91 QPSK 1/2 -77 -94/-90 QPSK 3/4 -75 -91/-87 16-QAM 1/2 -72 -88/-84 16-QAM 3/4 -68 -85/-81 64-QAM 2/3 -64 -81/-77 64-QAM 3/4 -63 -80/-76 64-QAM 5/6 -62 -77/-72 				❖ HT40 <ul style="list-style-type: none"> BPSK 1/2 -77 -91/-86 QPSK 1/2 -74 -90/-86 QPSK 3/4 -72 -88/-83 16-QAM 1/2 -69 -85/-81 16-QAM 3/4 -65 -82/-78 			
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64-QAM	3/4	-60	-76/-72																																																																										
64-QAM	5/6	-59	-74/-70																																																																										
Operation distance	<p>➤ 802.11a</p> <p>Outdoor: 50 m @54Mbps, 300 m @6Mbps</p> <p>Indoor: 30 m @54Mbps, 100 m @6Mbps</p> <p>➤ 802.11b</p> <p>Outdoor: 150 m @11Mbps, 300 m @1Mbps</p> <p>Indoor: 30 m @11Mbps, 100 m @1Mbps</p> <p>➤ 802.11g</p> <p>Outdoor: 50 m @54Mbps, 300 m @6Mbps</p> <p>Indoor: 30 m @54Mbps, 100 m @6Mbps</p> <p>➤ 802.11n</p> <p>Outdoor: 250 m @6.5Mbps (MCS0: 1 Nss/20MHz BW)</p> <p>30 m @130Mbps (MCS15: 2 Nss/20MHz BW)</p> <p>30 m @300Mbps (MCS15: 2 Nss/40MHz BW)</p> <p>Indoor: 100 m @6.5Mbps (MCS0: 1 Nss/20MHz BW)</p> <p>20 m @130Mbps (MCS15: 2 Nss/20MHz BW)</p> <p>20 m @300Mbps (MCS15: 2 Nss/40MHz BW)</p>																																																																												
Operation System supported	➤ Windows® XP Professional																																																																												
PCB Dimension	➤ 112mm(L) x 48mm(W) x 0.787mm(T) 4L FR4																																																																												
Security	<p>➤ 64-bit, 128-bit, 152-bit WEP Encryption</p> <p>➤ 802.1x Authentication</p> <p>➤ AES-CCM & TKIP Encryption</p>																																																																												
Operation mode	➤ Infrastructure mode																																																																												
Transfer data rate	<p>➤ 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps</p> <p>➤ 802.11b: 1, 2, 5.5, 11Mbps</p> <p>➤ 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps</p> <p>➤ 802.11n: @800GI(400GI)</p> <p>● 20MHz BW</p>																																																																												

Operation distance depends on real environment.

	<ul style="list-style-type: none"> ▪ 1 Nss: 65(72.2) Mbps maximal ▪ 2 Nss: 130(144.444) Mbps maximal ● 40MHz BW <ul style="list-style-type: none"> ▪ 1 Nss: 135(150) Mbps maximal ▪ 2 Nss: 270(300) Mbps maximal
Operation temperature	➤ 0° ~ 55° C
Storage temperature	➤ -20° ~ 80° C
WHQL	➤ Microsoft® XP Professional Compliant
FAA	➤ S/W audio On/Off support
Certifications	<ul style="list-style-type: none"> ➤ FCC part 15 (USA) FCC ID: RD7-C1060 ➤ IC RSS210 (Canada) IC ID: 7491A-C1060 ➤ EN301893 v1.4.1 (2007-07), EN301893 v1.4.1 (2007-02), EN300328v1.7.1 (2006-10) ➤ RoHS compliance
Media access protocol	➤ CSMA/CA with ACK architecture 32-bit MAC
Antenna	➤ Dual Band Metal PIFA Antenna x 2 and Chip Antenna x 1